

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
7 December 2000 (07.12.2000)

PCT

(10) International Publication Number
WO 00/74107 A2(51) International Patent Classification⁷: **H01L**

ul. Obrucheva, 20-12, Moscow, 117421 (RU). GIVARGIZOV, Mikhail Evgenievich [RU/RU]; ul. Vargi, 1-115, Moscow, 117133 (RU).

(21) International Application Number: PCT/RU00/00209

(22) International Filing Date: 31 May 2000 (31.05.2000)

(81) Designated States (*national*): AT, AU, BG, BR, CA, CH, CN, CZ, DE, DK, ES, FI, GB, HU, IL, IN, JP, KR, LT, LU, PL, RU, SE, SG, SI, SK, UA, US.

(25) Filing Language: English

(26) Publication Language: English

(84) Designated States (*regional*): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

(30) Priority Data:

99111382	31 May 1999 (31.05.1999)	RU
99111432	31 May 1999 (31.05.1999)	RU
2000107025	23 March 2000 (23.03.2000)	RU
2000107026	23 March 2000 (23.03.2000)	RU

Published:

— Without international search report and to be republished upon receipt of that report.

(71) Applicants and

(72) Inventors: GIVARGIZOV, Evgeny Invievich [RU/RU];

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TIP STRUCTURES, DEVICES ON THEIR BASIS, AND METHODS FOR THEIR PREPARATION

(57) Abstract: New designs of electron devices such as scanning probes and field emitters based on tip structures are proposed. The tips are prepared from whiskers that are grown from the vapor phase by the vapor-liquid-solid technology. Some new designs for preparation of field-emitters and of probes for magnetic, electrostatic, morphological, etc, investigations based on the specific technology are proposed. New designs for preparation of multilever probes are proposed, too.

WO 00/74107 A2